



Phone
Fax
Mailing

WATER

(219) 295-2400
(219) 293-2723
PO Box 1023
Elkhart, In 46515

WASTEWATER

(219) 293-2572
(219) 293-7658
1201 S. Nappanee St.
Elkhart, In 46516

PUBLIC WORKS

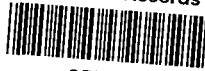
(219) 294-5471
(219) 293-7964
229 S. Second St.
Elkhart, In 46516

93

PUBLIC WORKS AND UTILITIES, Elkhart, In

JAMES P. PERRON, Mayor

EPA Region 5 Records Ctr.



353117

April 26, 1994

RECEIVED

MAY 2 1994
IDEM - ENVIRON
RESPONSE

IDEM

Attn: Pat Carrasquero
Superfund Section
P.O. Box 6015
Indianapolis, IN 46206-6015

Dear Mr. Carrasquero,

Enclosed please find the required reports for the
Air Stripper Facility located at North Main Street
Well Field in Elkhart, Indiana.

These reports are for the year 1993 which includes
the quarterly and annual reports.

If you have any questions, please contact me at the
phone number of 219-293-2572.

Sincerely,

Marie Davis,
Supt. of Operations

MD/cs
Encl.



COMMITMENT TO EXCELLENCE

AIR STRIPPER OPERATION AND MAINTENANCE ANNUAL REPORT

Operation (Energy) Costs 16,875.23

Maintenance Costs 3,944.17

Brief Summary of Maintenance Activities

Personnel Costs 3,107.53

Give an evaluation of the effectiveness of the air stripper based on performance monitoring.

Marie A. Davis
Signature

04-27-99
Date

1993
Year of Report

Marie A. Davis, Oper. Supt.

CITY OF ELKHART WATER UTILITY

AIR STRIPPER, OPERATION AND MAINTENANCE QUARTERLY REPORT

Month	Operation Cost (Energy)	Maintenance Activities	Personnel Cost	TCE Concentration in Raw & Finished Water (Based on existing well sampling program)	
				Raw	Finished
JAN	1,182.99	290.00	230.02		
FEB	973.89	293.83	285.14		
MAR	1,052.86	1,274.24	187.08		
TOTAL	3,209.74	1,858.07	702.24		

TCE Levels (ug/L) in each production well and interceptor well outfall

Month	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Well #9	Well #10	Well A	Well B	Well C	Well D	Well E	Int-1	Int-2
JAN '93	0.80								4.5								13.0
FEB '93	0.90						6.90		3.5								23.0
MAR '93	0.70								7.2								17.0

= less than

Provide an evaluation of effectiveness of the air stripper based on performance monitoring program.

Attach: Pumpage from each well treated on a daily basis (in graphic format)
Total daily pumpage treated (in graphic format)

Signature: Marie A. Davis Date: 5/26/93 Reporting Quarter 1st Year 93
Marie A. Davis



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PUBLIC WORKS AND UTILITIES, Elkhart, In

JAMES P. PERRON, Mayor

AIR STRIPPER MAINTENANCE

JAN THRU MARCH 1993

<u>Date</u>	<u>Item</u>	<u>Time spent</u>
Jan. 1-31 12	Daily Readings VOC Samples	1/4 ea. day 1/2 hour
Feb. 1-28 11 11 16	Daily readings Install CL2 detection (2 men) Grease bearings and blowers VOC Samples	1/4 ea. day 8 hours 1 hour 1 hour
March 1-31 17 23	Daily readings VOC Samples Start & stop #2 AST and open dampers	1/4 ea. day 1 hour 1 hour



COMMITMENT TO EXCELLENCE

CITY OF ELKHART WATER UTILITY

AIR STRIPPER, OPERATION AND MAINTENANCE QUARTERLY REPORT

Month	Operation Cost (Energy)	Maintenance Activities	Personnel Cost	TCE Concentration in Raw & Finished Water (Based on existing well sampling program)	
				Raw	Finished
April	964.11	220.00	398.62		
May	2212.48	-	364.12		
June	1947.41	338.95	201.84		
TOTAL	5034.00	558.95	964.58		

TCE Levels (ug/L) in each production well and interceptor well outfall

Month	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Well #9	Well #10	Well A	Well B	Well C	Well D	Well E	Int-1	Int-2
APRIL 93	0.8										N.D.	N.D.	N.D.	N.D.	N.D.	6.0	14.0
MAY 93	0.6	1.1	N.D.	1.2	1.1	1.3	0.5	0.5	5.7	1.0	0.3	0.2	0.2	0.1	3.5	7.8	18.0
JUNE 93																11.0	10.0

< = less than N.D. = No Detection

Give an evaluation of effectiveness of the air stripper based on performance monitoring program.

Attach: Pumpage from each well treated on a daily basis (in graphic format)
Total daily pumpage treated (in graphic format)

Signature: Marie Davis Date: 7/30/93 Reporting Quarter 2nd Year 1993
Marie Davis



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PUBLIC WORKS AND UTILITIES, Elkhart, In

JAMES P. PERRON, Mayor

AIR STRIPPER MAINTENANCE

APRIL THRU JUNE 1993

<u>DATE</u>	<u>ITEM</u>	<u>TIME SPENT</u>
April 1-30	Daily Readings	1/2 hr. each day
May 1 - 31	Daily Readings	1/2 hr. each day
June 1-30	Daily Readings	1/2 hr. each day



COMMITMENT TO EXCELLENCE

CITY OF ELKHART WATER UTILITY

AIR STRIPPER, OPERATION AND MAINTENANCE QUARTERLY REPORT

Month	Operation Cost (Energy)	Maintenance Activities	Personnel Cost	TCE Concentration in Raw & Finished Water (Based on existing well sampling program)	
				Raw	Finished
July	1371.64		243.82		
Aug.	2560.30		222.68		
Sept.	1323.94	4.03	261.27		
TOTAL	5255.88	4.03	727.77		

TCE Levels (ug/L) in each production well and interceptor well outfall

Month	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Well #9	Well #10	Well A	Well B	Well C	Well D	Well E	Int-1
JULY '93					1.0											13.0
AUG '93	0.6	0.9	0.4	2.3	0.8	1.5	<0.1	<0.1	8.2	0.9	0.3	0.3	0.2	<0.1	6.9	17.0
SEPT '93					1.6		N.D.	N.D.			N.D.	N.D.	N.D.	N.D.	6.2	

< = less than N.D. = NO DETECTION

Give an evaluation of effectiveness of the air stripper based on performance monitoring program.

Attach: Pumpage from each well treated on a daily basis (in graphic format)
Total daily pumpage treated (in graphic format)

Signature: Marie Davis Date: 11/10/93 Reporting Quarter 3rd Year 1993
Marie Davis



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PUBLIC WORKS AND UTILITIES, Elkhart, In

JAMES P. PERRON, Mayor

AIR STRIPPER MAINTENANCE

JULY THRU SEPT. 1993

<u>DATE</u>	<u>ITEM</u>	<u>TIME SPENT</u>
July 1 - 31	Daily readings	1/2 hour each day
Aug. 1 - 31	Daily readings	1/2 hour each day
Sept. 1 - 30	Daily Readings	1/2 hour each day

CITY OF ELKHART WATER UTILITY

AIR STRIPPER, OPERATION AND MAINTENANCE QUARTERLY REPORT

Month	Operation Cost (Energy)	Maintenance Activities	Personnel Cost	TCE Concentration in Raw & Finished Water (Based on existing well sampling program)	
				Raw	Finished
Oct.	1431.81	971.12	264.63		
NOV.	958.49	276.00	218.32		
DEC.	985.31	276.00	229.99		
TOTAL	3375.61	1523.12	712.94		

TCE Levels (ug/L) in each production well and interceptor well outfall

Month	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Well #9	Well #10	Well A	Well B	Well C	Well D	Well E	Int-1	Int-2
OCT '93	1.0	1.3	0.7	2.8	1.1	1.6	BDL	BDL	6.5	0.7	BDL	BDL	BDL	BDL	4.6	15.0	12.0
NOV '93	1.2						BDL	BDL	8.8								14.0
DEC '93	1.6						BDL	BDL	16.0								28.0

< = less than

BDL = Below Detection Limits

Give an evaluation of effectiveness of the air stripper based on performance monitoring program.

Attach: Pumpage from each well treated on a daily basis (in graphic format)
Total daily pumpage treated (in graphic format)

Signature: Maria A. [Signature] Date: 3/18/94 Reporting Quarter 4th Year 1993



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PUBLIC WORKS AND UTILITIES, Elkhart, In

JAMES P. PERRON, Mayor

AIR STRIPPER MAINTENANCE

October thru December 1993

<u>DATE</u>	<u>ITEM</u>	<u>TIME SPENT</u>
October 1-31	Daily Readings	1/2 hour each day
Nov. 1 - 30	Daily Readings	1/2 hour each day
Dec. 1-31	Daily Readings	1/2 hour each day



COMMITMENT TO EXCELLENCE



ANALYTICAL REPORT

Q3 93

Client:

Ms Lynn Newvine
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516
219-293-2572

Report Date: 10-13-93**EIS Lab No:** 12451**EIS Project No:** 1008-8944**EIS Priority:** 4**Client P.O.#:****Certification:** Indiana Drinking Water Certificate No. C-71-02**Invoice To:**

Elkhart Public Works
Water Division
P.O.Box 1023
Elkhart, Indiana 46515

SAMPLE IDENTIFICATION

Sample ID: A.S.TOWER #1 INFLUENT
W93-0601

Date Sampled: 9-23-93**Date Received:** 9-24-93**Report To:**

Ms Marie Davis
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Extra Report To:**PARAMETER****UNITS****RESULT****TEST
DATE****ANALYST****QUALITY
CONTROL
%RSD %R**

VOC

* See Attached ORGANICS REPORT

*

09-29-93 Myers,N

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. National Drinking Water Standards are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. Batch Quality Control results are enclosed.

William E. Davis II
QUALITY ASSURANCE OFFICER

Andie Pozite
LABORATORY DIRECTOR

VOLATILE ORGANIC COMPOUNDS (VOC) IN DRINKING WATER

REGULATED VOC	RESULT	DL	UNREGULATED VOC	RESULT	DL
Benzene	ND	0.5	Bromobenzene	ND	0.5
Carbon Tetrachloride	ND	0.5	Bromochloromethane	ND	2.0
o-Dichlorobenzene	ND	0.5	Bromodichloromethane	ND	0.5
p-Dichlorobenzene	ND	0.5	Bromoform	ND	0.5
1,2-Dichloroethane	ND	0.5	Bromomethane	ND	2.0
1,1-Dichloroethylene	ND	0.5	n-Butylbenzene	ND	0.5
c-1,2-Dichloroethylene	2.4	0.5	sec-Butylbenzene	ND	0.5
t-1,2-Dichloroethylene	ND	0.5	tert-Butylbenzene	ND	0.5
Dichloromethane	ND	0.5	Chlorodibromomethane	ND	0.5
1,2-Dichloropropane	ND	0.5	Chloroethane	ND	2.0
Ethyl Benzene	ND	0.5	Chloroform	ND	0.5
Monochlorobenzene	ND	0.5	Chloromethane	ND	2.0
Styrene	ND	0.5	o-Chlorotoluene	ND	0.5
Tetrachloroethylene	3.8	0.5	p-Chlorotoluene	ND	0.5
Toluene	ND	0.5	Dibromomethane	ND	0.5
Total Trihalomethanes (TTHM)	ND	2.0	m-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5	Dichlorodifluoromethane	ND	2.0
1,1,1-Trichloroethane	ND	0.5	1,1-Dichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5	1,3-Dichloropropane	ND	0.5
Trichloroethylene	8.5	0.5	2,2-Dichloropropane	ND	1.0
Vinyl Chloride	ND	0.5	1,1-Dichloropropene	ND	0.5
Xylenes (total)	ND	2.0	1,3-Dichloropropene (total)	ND	1.0
			Fluorotrichloromethane	ND	1.0
1,2-Dichloroethane (SUR)	108%	76-114	Hexachlorobutadiene	ND	0.5
Toluene, d8 (SUR)	100%	88-110	Isopropylbenzene	ND	0.5
Bromofluorobenzene (SUR)	99%	86-115	p-Isopropyltoluene	ND	0.5
			Naphthalene	ND	0.5
			n-Propylbenzene	ND	0.5
			1,1,1,2-Tetrachloroethane	ND	1.0
			1,1,2,2-Tetrachloroethane	ND	0.5
			1,2,3-Trichlorobenzene	ND	0.5
			1,2,3-Trichloropropane	ND	1.0
			1,2,4-Trimethylbenzene	ND	0.5
			1,3,5-Trimethylbenzene	ND	0.5

ANALYTICAL COMMENTS

1. EPA Method: 524.2
2. Result is in µg/l
3. DL = Detection Limit at the dilution used
4. ND = Not Detected at the DL shown
5. SUR = Surrogate compound with QC Limits shown in the DL column
6. A Blank Result means the analysis was not requested
7. Sample Dilution: None
8. Other VOC detected: None



ANALYTICAL REPORT

Client:

Ms Lynn Newvine
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516
219-293-2572

Report Date: 10-13-93**EIS Lab No:** 12453**EIS Project No:** 1008-8944**EIS Priority:** 4**Client P.O.#:****Certification:** Indiana Drinking Water Certificate No. C-71-02**Invoice To:**

Elkhart Public Works
Water Division
P.O.Box 1023
Elkhart, Indiana 46515

SAMPLE IDENTIFICATION

Sample ID: A.S.TOWER #1 EFFLUENT
W93-0602

Date Sampled: 9-23-93**Date Received:** 9-24-93**Report To:**

Ms Marie Davis
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Extra Report To:

<u>PARAMETER</u>	<u>UNITS</u>	<u>RESULT</u>	<u>TEST DATE</u>	<u>ANALYST</u>	<u>QUALITY CONTROL</u>	
					<u>%RSD</u>	<u>%R</u>
VOC		*	09-29-93	Myers,N		
* See Attached ORGANICS REPORT						

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. National Drinking Water Standards are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. Batch Quality Control results are enclosed.

William E. Davis II
QUALITY ASSURANCE OFFICER

Anders Fogtle
LABORATORY DIRECTOR

VOLATILE ORGANIC COMPOUNDS (VOC) IN DRINKING WATER

REGULATED VOC	RESULT	DL	UNREGULATED VOC	RESULT	DL
Benzene	ND	0.5	Bromobenzene	ND	0.5
Carbon Tetrachloride	ND	0.5	Bromochloromethane	ND	2.0
o-Dichlorobenzene	ND	0.5	Bromodichloromethane	ND	0.5
p-Dichlorobenzene	ND	0.5	Bromoform	ND	0.5
1,2-Dichloroethane	ND	0.5	Bromomethane	ND	2.0
1,1-Dichloroethylene	ND	0.5	n-Butylbenzene	ND	0.5
c-1,2-Dichloroethylene	ND	0.5	sec-Butylbenzene	ND	0.5
t-1,2-Dichloroethylene	ND	0.5	tert-Butylbenzene	ND	0.5
Dichloromethane	ND	0.5	Chlorodibromomethane	ND	0.5
1,2-Dichloropropane	ND	0.5	Chloroethane	ND	2.0
Ethyl Benzene	ND	0.5	Chloroform	ND	0.5
Monochlorobenzene	ND	0.5	Chloromethane	ND	2.0
Styrene	ND	0.5	o-Chlorotoluene	ND	0.5
Tetrachloroethylene	ND	0.5	p-Chlorotoluene	ND	0.5
Toluene	ND	0.5	Dibromomethane	ND	0.5
Total Trihalomethanes (TTHM)	ND	2.0	m-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5	Dichlorodifluoromethane	ND	2.0
1,1,1-Trichloroethane	ND	0.5	1,1-Dichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5	1,3-Dichloropropane	ND	0.5
Trichloroethylene	ND	0.5	2,2-Dichloropropane	ND	1.0
Vinyl Chloride	ND	0.5	1,1-Dichloropropene	ND	0.5
Xylenes (total)	ND	2.0	1,3-Dichloropropene (total)	ND	1.0
			Fluorotrichloromethane	ND	1.0
1,2-Dichloroethane (SUR)	108%	76-114	Hexachlorobutadiene	ND	0.5
Toluene, d8 (SUR)	97%	88-110	Isopropylbenzene	ND	0.5
Bromofluorobenzene (SUR)	94%	86-115	p-Isopropyltoluene	ND	0.5
			Naphthalene	ND	0.5
			n-Propylbenzene	ND	0.5
			1,1,1,2-Tetrachloroethane	ND	1.0
			1,1,2,2-Tetrachloroethane	ND	0.5
			1,2,3-Trichlorobenzene	ND	0.5
			1,2,3-Trichloropropane	ND	1.0
			1,2,4-Trimethylbenzene	ND	0.5
			1,3,5-Trimethylbenzene	ND	0.5

ANALYTICAL COMMENTS

1. EPA Method: 524.2
2. Result is in µg/l
3. DL = Detection Limit at the dilution used
4. ND = Not Detected at the DL shown
5. SUR = Surrogate compound with QC Limits shown in the DL column
6. A Blank Result means the analysis was not requested
7. Sample Dilution: None
8. Other VOC detected: None



ANALYTICAL REPORT

Client:

Ms Lynn Newvine
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516
219-293-2572

Report Date: 10-13-93**EIS Lab No:** 12454**EIS Project No:** 1008-8944**EIS Priority:** 4**Client P.O.#:****Certification:** Indiana Drinking Water Certificate No. C-71-02**Invoice To:**

Elkhart Public Works
Water Division
P.O.Box 1023
Elkhart, Indiana 46515

SAMPLE IDENTIFICATION

Sample ID: A.S.TOWER #2 EFFLUENT
W93-0603

Date Sampled: 9-23-93**Date Received:** 9-24-93**Report To:**

Ms Marie Davis
Elkhart Public Works
1201 South Nappanee Street
Elkhart, Indiana 46516

Extra Report To:

<u>PARAMETER</u>	<u>UNITS</u>	<u>RESULT</u>	<u>TEST DATE</u>	<u>ANALYST</u>	<u>QUALITY CONTROL</u>	
					<u>%RSD</u>	<u>%R</u>
VOC		*	09-30-93	Myers,N		
* See Attached ORGANICS REPORT						

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. National Drinking Water Standards are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. Batch Quality Control results are enclosed.

William E. Davis II
QUALITY ASSURANCE OFFICER

Anders Rozite
LABORATORY DIRECTOR

VOLATILE ORGANIC COMPOUNDS (VOC) IN DRINKING WATER

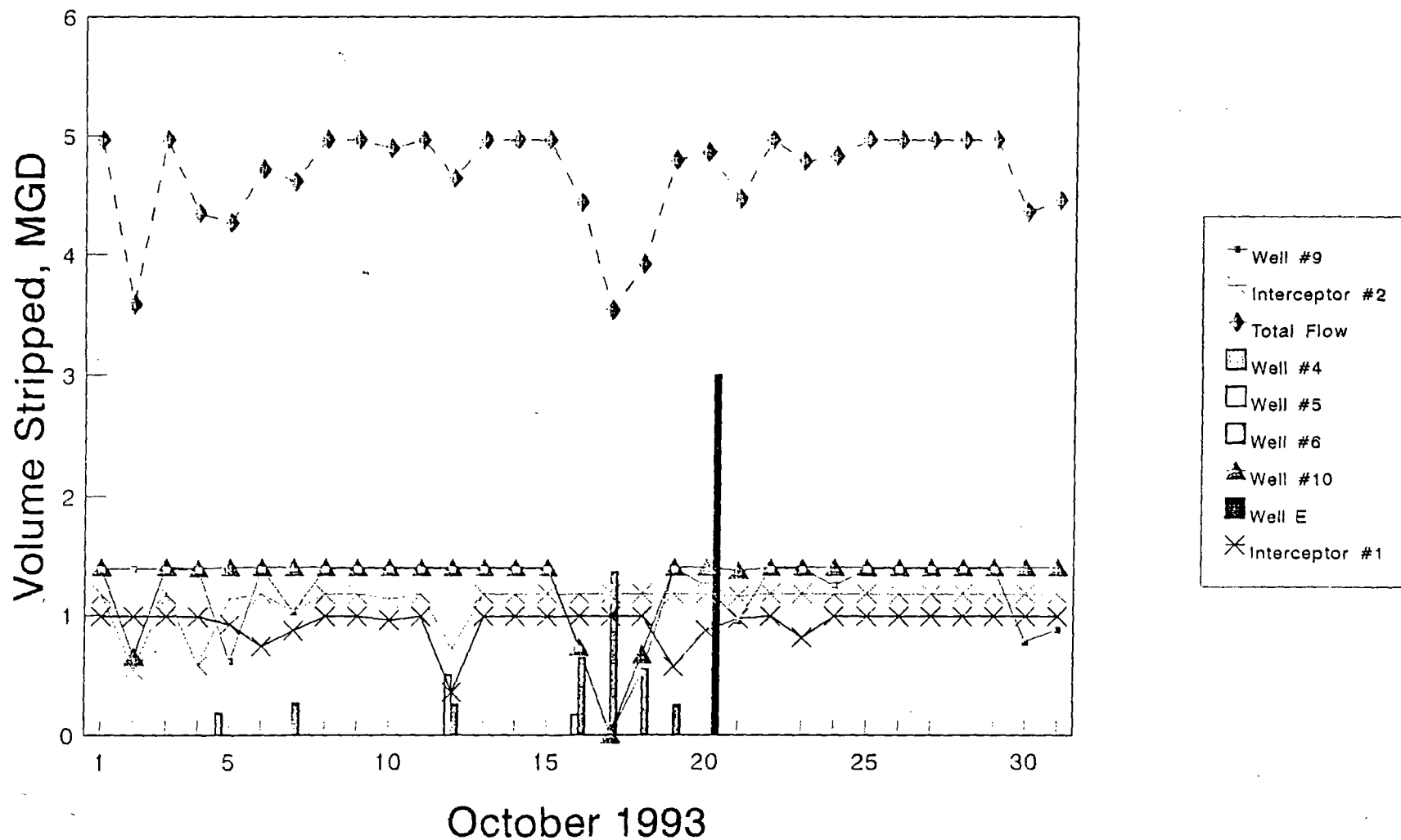
REGULATED VOC	RESULT	DL	UNREGULATED VOC	RESULT	DL
Benzene	ND	0.5	Bromobenzene	ND	0.5
Carbon Tetrachloride	ND	0.5	Bromochloromethane	ND	2.0
o-Dichlorobenzene	ND	0.5	Bromodichloromethane	ND	0.5
p-Dichlorobenzene	ND	0.5	Bromoform	ND	0.5
1,2-Dichloroethane	ND	0.5	Bromomethane	ND	2.0
1,1-Dichloroethylene	ND	0.5	n-Butylbenzene	ND	0.5
c-1,2-Dichloroethylene	ND	0.5	sec-Butylbenzene	ND	0.5
t-1,2-Dichloroethylene	ND	0.5	tert-Butylbenzene	ND	0.5
Dichloromethane	ND	0.5	Chlorodibromomethane	ND	0.5
1,2-Dichloropropane	ND	0.5	Chloroethane	ND	2.0
Ethyl Benzene	ND	0.5	Chloroform	ND	0.5
Monochlorobenzene	ND	0.5	Chloromethane	ND	2.0
Styrene	ND	0.5	o-Chlorotoluene	ND	0.5
Tetrachloroethylene	ND	0.5	p-Chlorotoluene	ND	0.5
Toluene	ND	0.5	Dibromomethane	ND	0.5
Total Trihalomethanes (TTHM)	ND	2.0	m-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5	Dichlorodifluoromethane	ND	2.0
1,1,1-Trichloroethane	ND	0.5	1,1-Dichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5	1,3-Dichloropropane	ND	0.5
Trichloroethylene	ND	0.5	2,2-Dichloropropane	ND	1.0
Vinyl Chloride	ND	0.5	1,1-Dichloropropene	ND	0.5
Xylenes (total)	ND	2.0	1,3-Dichloropropene (total)	ND	1.0
			Fluorotrichloromethane	ND	1.0
1,2-Dichloroethane (SUR)	107%	76-114	Hexachlorobutadiene	ND	0.5
Toluene, d8 (SUR)	101%	88-110	Isopropylbenzene	ND	0.5
Bromofluorobenzene (SUR)	96%	86-115	p-Isopropyltoluene	ND	0.5
			Naphthalene	ND	0.5
			n-Propylbenzene	ND	0.5
			1,1,1,2-Tetrachloroethane	ND	1.0
			1,1,2,2-Tetrachloroethane	ND	0.5
			1,2,3-Trichlorobenzene	ND	0.5
			1,2,3-Trichloropropane	ND	1.0
			1,2,4-Trimethylbenzene	ND	0.5
			1,3,5-Trimethylbenzene	ND	0.5

ANALYTICAL COMMENTS

1. EPA Method: 524.2
2. Result is in µg/l
3. DL = Detection Limit at the dilution used
4. ND = Not Detected at the DL shown
5. SUR = Surrogate compound with QC Limits shown in the DL column
6. A Blank Result means the analysis was not requested
7. Sample Dilution: None
8. Other VOC detected: None

CITY OF ELKHART WATER TREATMENT UTILITY Air Stripping Facility

Q3 93



ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dele DATE 10-1-93 TIME 11:00

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	— 0 —	x 56,700 GPH	(945 GPM)	—
#4 WELL	— 0 —	x 52,500 GPH	(875 GPM)	—
#5 WELL	— 0 —	x 54,900 GPH	(915 GPM)	—
#6 WELL	— 0 —	x 56,700 GPH	(945 GPM)	—
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	— 0 —	x 53,100 GPH	(885 GPM)	—
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	— 0 —	x GPH	(GPM)	—
Int. #4	— 0 —	x GPH	(GPM)	—

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)	2.1	.78	2	2 0089.6	2 0114.6
AST #2 (C)	3.2	.66	1278	1 9592.4	1 9617.4
AST #3 (S)	2.9	1.0	1238	1 9361.4	1 9377.1

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	28820.4	28845.5
HIGH SERVICE PUMP #2	29016.8	29041.9
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS		
PREV. DAY	46	#
TODAY	38	#
LBS. USED	8	#

WET WELL LEVEL
603 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Gary DATE 10-2-93 TIME 1:06

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	_____
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	_____
#5 WELL	0	x 54,900 GPH	(915 GPM)	_____
#6 WELL	0	x 56,700 GPH	(945 GPM)	_____
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	11.2	x 58,500 GPH	(975 GPM)	655,200
"E" WELL	-0-	x 53,100 GPH	(885 GPM)	_____
Int.. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	11.1	x 49,200 GPH	(820 GPM)	546,120
Int. #3	-0-	x 0 GPH	(GPM)	_____
Int. #4	-0-	x 0 GPH	(GPM)	_____

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)	_____	_____	_____	20114.6	20140.7
AST #2 (C)	3.20	.70	1211	19617.4	19643.6
AST #3 (S)	2.85	1.06	1143	19377.1	19399.1

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	28845.5 28871.8	28871.8
HIGH SERVICE PUMP #2	29041.9	29068.2
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS	
PREV. DAY	38 #
TODAY	28 #
LBS. USED	10 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME GARY DATE 10-3-93 TIME 9250

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	_____
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	_____
#5 WELL	0	x 54,900 GPH	(915 GPM)	_____
#6 WELL	0	x 56,700 GPH	(945 GPM)	_____
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	- 0 -	x 53,100 GPH	(885 GPM)	_____
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,175,880
Int. #3	- 0 -	x 0 GPH	(GPM)	_____
Int. #4	- 0 -	x 0 GPH	(GPM)	_____

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)	_____	_____	✓	20140.7	20140.7
AST #2 (C)	3.25	.72	1283	19643.6	19664.3
AST #3 (S)	2.95	1.10	1238	19399.1	19418.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	28871.8	28892.6
HIGH SERVICE PUMP #2	29068.2	29089.0
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS		
PREV. DAY	28	#
TODAY	20	#
LBS. USED	8	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
0.1+ mg/L

COMMENTS _____

**ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY**

OPERATOR NAME Dale DATE 10-4-93 TIME 11:20

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	_____
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	_____
#5 WELL	- 0 -	x 54,900 GPH	(915 GPM)	_____
#6 WELL	- 0 -	x 56,700 GPH	(945 GPM)	_____
#9 WELL	23.8	x 57,900 GPH	(965 GPM)	1,378,020
#10 WELL	23.8	x 58,500 GPH	(975 GPM)	1,392,300
"E" WELL	- 0 -	x 53,100 GPH	(885 GPM)	_____
Int. #1	23.9	x 41,400 GPH	(690 GPM)	989,460
Int. #2	11.9	x 49,200 GPH	(820 GPM)	585,480
Int. #3	- 0 -	x 0 GPH	(GPM)	_____
Int. #4	- 0 -	x 0 GPH	(GPM)	_____

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)		~		20140.7	20140.7
AST #2 (C)	3.1	.70	1276	19664.3	19689.7
AST #3 (S)	2.8	1.14	1222	19418.9	19443.3

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	28892.6	28918.2
HIGH SERVICE PUMP #2	29089.6	29114.6
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS	
PREV. DAY	20 #
TODAY	10 #
LBS. USED	10 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

**ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY**

OPERATOR NAME Dale DATE 10-5-93 TIME 12:35

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	<u>—0—</u>	x 56,700 GPH	(945 GPM)	<u> </u>
#4 WELL	<u>3.5</u>	x 52,500 GPH	(875 GPM)	<u>183,750</u>
#5 WELL	<u>—0—</u>	x 54,900 GPH	(915 GPM)	<u> </u>
#6 WELL	<u>—0—</u>	x 56,700 GPH	(945 GPM)	<u> </u>
#9 WELL	<u>10.6</u>	x 57,900 GPH	(965 GPM)	<u>613,740</u>
#10 WELL	<u>24.0</u>	x 58,500 GPH	(975 GPM)	<u>1,404,000</u>
"E" WELL	<u>—0—</u>	x 53,100 GPH	(885 GPM)	<u> </u>
Int. #1	<u>22.3</u>	x 41,400 GPH	(690 GPM)	<u>923,220</u>
Int. #2	<u>23.2</u>	x 49,200 GPH	(820 GPM)	<u>1,141,440</u>
Int. #3	<u>—0—</u>	x 0 GPH	(GPM)	<u> </u>
Int. #4	<u>—0—</u>	x 0 GPH	(GPM)	<u> </u>

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)	<u> </u>	<u> </u>	<u> </u>	<u>20140.7</u>	<u>20140.7</u>
AST #2 (C)	<u>2.9</u>	<u>.76</u>	<u>972</u>	<u>19689.7</u>	<u>19715.0</u>
AST #3 (S)	<u>2.7</u>	<u>.58</u>	<u>917</u>	<u>19443.3</u>	<u>19467.6</u>

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	<u>28918.2</u>	<u>28943.6</u>
HIGH SERVICE PUMP #2	<u>29114.6</u>	<u>29140.0</u>
HIGH SERVICE PUMP #3	<u>28812.6</u>	<u>28812.6</u>

CHLORINE SCALE WEIGHTS	
PREV. DAY	<u>10</u> #
TODAY	<u>150</u> #
LBS. USED	<u>10</u> #

WET WELL LEVEL
<u>6.2 FT.</u>

WET WELL ROTATION
<u>1 - 2 - 3</u>

CHLORINE RESIDUAL
<u>0.05</u> mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dale DATE 10-6-93 TIME 12:20

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	_____
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	_____
#5 WELL	- 0 -	x 54,900 GPH	(915 GPM)	_____
#6 WELL	- 0 -	x 56,700 GPH	(945 GPM)	_____
#9 WELL	24	x 57,900 GPH	(965 GPM)	1389,600
#10 WELL	24	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	- 0 -	x 53,100 GPH	(885 GPM)	_____
Int. #1	17.9	x 41,400 GPH	(690 GPM)	741,060
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	- 0 -	x 0 GPH	(GPM)	_____
Int. #4	- 0 -	x 0 GPH	(GPM)	_____

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)			2	20140.7	20140.7
AST #2 (C)	2.5	.80	693	19715.0	19738.7
AST #3 (S)	2.5	.62	711	19467.6	19491.0

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	28943.6	28967.5
HIGH SERVICE PUMP #2	29140.0	29163.8
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS	
PREV. DAY	150 #
TODAY	146 #
LBS. USED	4 #

WET WELL LEVEL
6.2 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dale DATE 10-7-93 TIME 1:20

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	4.7	x 56,700 GPH	(945 GPM)	266,490
#9 WELL	17.8	x 57,900 GPH	(965 GPM)	1,030,620
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	21.1	x 41,400 GPH	(690 GPM)	873,540
Int. #2	21.1	x 49,200 GPH	(820 GPM)	1,038,120
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	2.8	.78	1249	19738.7	19763.7
AST #3 (S)	2.8	.58	1233	19491.0	19515.1

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	28967.5	28992.5
HIGH SERVICE PUMP #2	29163.8	29188.9
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS		
PREV. DAY	146	#
TODAY	138	#
LBS. USED	8	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
+0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dale DATE 10-8-93 TIME 10:29

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.0	.78	1260	19763.7	19784.8
AST #3 (S)	2.9	.60	1212	19515.1	19535.6

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	28992.5	29013.8
HIGH SERVICE PUMP #2	29188.9	29210.1
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS		
PREV. DAY	138	#
TODAY	132	#
LBS. USED	6	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

**ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY**

OPERATOR NAME GARY DATE 10-9-93 TIME 11:15

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	— 0 —	x 56,700 GPH	(945 GPM)	—
#4 WELL	— 0 —	x 52,500 GPH	(875 GPM)	—
#5 WELL	— 0 —	x 54,900 GPH	(915 GPM)	—
#6 WELL	— 0 —	x 56,700 GPH	(945 GPM)	—
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	— 0 —	x 53,100 GPH	(885 GPM)	—
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	— 0 —	x 0 GPH	(GPM)	—
Int. #4	— 0 —	x 0 GPH	(GPM)	—

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)	—	—	—	20140.7	20140.7
AST #2 (C)	3.35	2.0	1267	19784.8	19809.7
AST #3 (S)	3.20	1.60	1212	19535.6	19559.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29013.8	29038.7
HIGH SERVICE PUMP #2	29210.1	29235.1
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS	
PREV. DAY	132 #
TODAY	124 #
LBS. USED	8 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
0.1 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME GARY DATE 10-10-93 TIME 2:15

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	23.2	x 41,400 GPH	(690 GPM)	960,980
Int. #2	23.2	x 49,200 GPH	(820 GPM)	1,141,440
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.30	.80	1282	19809.7	19836.6
AST #3 (S)	3.10	.62	1206	19559.9	19586.3

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29038.7	29065.8
HIGH SERVICE PUMP #2	29235.1	29262.2
HIGH SERVICE PUMP #3	28812.6	28812.6

CHLORINE SCALE WEIGHTS	
PREV. DAY	124 #
TODAY	115 #
LBS. USED	9 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
1 - 2 - 3

CHLORINE RESIDUAL
0.1 mg/L

COMMENTS Switch H.S. Pump Sequence to 3-1-2

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dee DATE 10-11-93 TIME 10:40

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	_____
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	_____
#5 WELL	- 0 -	x 54,900 GPH	(915 GPM)	_____
#6 WELL	- 0 -	x 56,700 GPH	(945 GPM)	_____
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	- 0 -	x 53,100 GPH	(885 GPM)	_____
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	- 0 -	x 0 GPH	(GPM)	_____
Int. #4	- 0 -	x 0 GPH	(GPM)	_____

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)		3.4		20140.7	20140.7
AST #2 (C)	3.3	.78	1280	19836.6	19857.0
AST #3 (S)	3.2	.64	1204	19586.3	19606.5

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29065.8	29086.3
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	28812.6	28833.1

CHLORINE SCALE WEIGHTS	
PREV. DAY	115 #
TODAY	106 #
LBS. USED	9 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

**ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY**

OPERATOR NAME Dale DATE 10-12-93 TIME 1:08

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	
#5 WELL	9.2	x 54,900 GPH	(915 GPM)	0,505,080
#6 WELL	4.5	x 56,700 GPH	(945 GPM)	255,150
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	- 0 -	x 53,100 GPH	(885 GPM)	
Int. #1	8.7	x 41,400 GPH	(690 GPM)	360,180
Int. #2	14.8	x 49,200 GPH	(820 GPM)	728,160
Int. #3	- 0 -	x 0 GPH	(GPM)	
Int. #4	- 0 -	x 0 GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.1	.80	1169	19857.0	19883.5
AST #3 (S)	3.0	.66	1051	19606.5	19632.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29086.3	29112.9
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	28833.1	28859.7

CHLORINE SCALE WEIGHTS	
PREV. DAY	106 #
TODAY	100 #
LBS. USED	6 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dale DATE 10-13-93 TIME 2:06

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	
#5 WELL	- 0 -	x 54,900 GPH	(915 GPM)	
#6 WELL	- 0 -	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	- 0 -	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	- 0 -	x GPH	(GPM)	
Int. #4	- 0 -	x GPH	(GPM)	

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.3	.84	1277	19883.5	19908.4
AST #3 (S)	3.1	.74	1201	19632.9	19657.8

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29112.9	29137.9
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	28859.7	28884.8

CHLORINE SCALE WEIGHTS	
PREV. DAY	100 #
TODAY	96 #
LBS. USED	4 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Wale DATE 10-14-93 TIME 12:18

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	.
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.2	.88	1272	19908.4	19930.6
AST #3 (S)	3.1	.68	1196	19657.8	19680.0

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29137.9	29160.3
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	28884.8	28907.1

CHLORINE SCALE WEIGHTS		
PREV. DAY	96	#
TODAY	92	#
LBS. USED	4	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
+0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Qale DATE 10-15-93 TIME 1230

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	- 0 -	x GPH	(GPM)	
Int. #4	- 0 -	x GPH	(GPM)	

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.1	.90	1274	19930.6	19954.8
AST #3 (S)	3.0	.68	1194	19680.0	19704.1

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29160.3	29184.5
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	28907.1	28931.4

CHLORINE SCALE WEIGHTS	
PREV. DAY	92 #
TODAY	87 #
LBS. USED	5 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
+ 0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Gay DATE 10-16-93 TIME 12:40

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	
#5 WELL	3.1	x 54,900 GPH	(915 GPM)	170,190
#6 WELL	11.3	x 56,700 GPH	(945 GPM)	640,710
#9 WELL	12.5	x 57,900 GPH	(965 GPM)	723,750
#10 WELL	12.5	x 58,500 GPH	(975 GPM)	731,250
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	- 0 -	x GPH	(GPM)	
Int. #4	- 0 -	x GPH	(GPM)	

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)	3.40	64	1535	20140.7	20140.7
AST #2 (C)	3.40	64	1535	19954.8	19979.1
AST #3 (S)	3.30	64	1493	19704.1	19728.4

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29184.5	29209.0
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	28931.4	28955.8

CHLORINE SCALE WEIGHTS	
PREV. DAY	87 #
TODAY	84 #
LBS. USED	3 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
20.5 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME GARY DATE 10-17-93 TIME 2:22

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	23.7 24.0	x 56,700 GPH	(945 GPM)	1343790 1,360,800
#9 WELL	0	x 57,900 GPH	(965 GPM)	
#10 WELL	0	x 58,500 GPH	(975 GPM)	
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	23.7 24.0	x 41,400 GPH	(690 GPM)	984180 993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	2-90	086	1045	19979.1	20004.7
AST #3 (S)	2-80	066	994	19728.4	19753.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29209.0	29221.9
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	28955.8	28981.5

CHLORINE SCALE WEIGHTS	
PREV. DAY	84 #
TODAY	77 #
LBS. USED	7 #

WET WELL LEVEL
5.4 FT.

WET WELL ROTATION
3-1-2

CHLORINE RESIDUAL
0.1 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Larry My DATE 10-18-93 TIME 12:25 PM

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	9.7	x 56,700 GPH	(945 GPM)	549,990
#9 WELL	9.0	x 57,900 GPH	(965 GPM)	521,100
#10 WELL	11.5	x 58,500 GPH	(975 GPM)	672,750
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	- 0 -	x GPH	(GPM)	
Int. #4	- 0 -	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	2.4	.80	507	20004.7	20026.8
AST #3 (S)	2.35	.62	502	19775.3.9	19775.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29221.9	29226.1
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	28981.5	29003.7

CHLORINE SCALE WEIGHTS	
PREV. DAY	77 #
TODAY	72 #
LBS. USED	5 #

WET WELL LEVEL
6.2 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
----- .05 ----- mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Male DATE 10-19-93 TIME 1:53

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	-
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	-
#5 WELL	- 0 -	x 54,900 GPH	(915 GPM)	-
#6 WELL	4.4	x 56,700 GPH	(945 GPM)	249,480
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	- 0 -	x 53,100 GPH	(885 GPM)	-
Int. #1	13.8	x 41,400 GPH	(690 GPM)	571,320
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-	x GPH	(GPM)	-
Int. #4	-	x GPH	(GPM)	-

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	2.5	0.88	674	20026.8	20052.1
AST #3 (S)	2.5	0.70	719	19775.9	19801.2

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29226.1	29251.5
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29003.7	29029.1

CHLORINE SCALE WEIGHTS		
PREV. DAY	72	#
TODAY	65	#
LBS. USED	7	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dale DATE 10-20-93 TIME 1:12

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	—
#4 WELL	- 0 -	x 52,500 GPH	(875 GPM)	—
#5 WELL	- 0 -	x 54,900 GPH	(915 GPM)	—
#6 WELL	- 0 -	x 56,700 GPH	(945 GPM)	—
#9 WELL	21.5	x 57,900 GPH	(965 GPM)	1244,850
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	3.0	x 53,100 GPH	(885 GPM)	159,300
Int. #1	21.1	x 41,400 GPH	(690 GPM)	873,540
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	- 0 -	x GPH	(GPM)	—
Int. #4	- 0 -	x GPH	(GPM)	—

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)		✓	✓	20140.7	20140.7
AST #2 (C)	3.1	.88	1255	20052.1	20075.3
AST #3 (S)	3.0	.68	1239	19801.2	19824.3

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29251.5	29274.8
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29029.1	29052.4

CHLORINE SCALE WEIGHTS	
PREV. DAY	65 #
TODAY	62 #
LBS. USED	3 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME GARY DATE 10-21-93 TIME 6:38

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	16.5	x 57,900 GPH	(965 GPM)	955,350
#10 WELL	23.5	x 58,500 GPH	(975 GPM)	1,374,750
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	23.5	x 41,400 GPH	(690 GPM)	972,900
Int. #2	23.6	x 49,200 GPH	(820 GPM)	1,161,120
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	2.85	.90	891	20075.3	20093.0
AST #3 (S)	2.80	.70	944	19824.3	19841.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29274.8	29292.6
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29052.4	29070.2

CHLORINE SCALE WEIGHTS		
PREV. DAY	62	#
TODAY	60	#
LBS. USED	2	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
46.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Larry Mc DATE 10-23-93 TIME 7:30 AM

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	19.6	x 41,400 GPH	(690 GPM)	811,440
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)	3			20140.7	20140.7
AST #2 (C)	3.3	96	1259	20122.9	20141.2
AST #3 (S)	3.3	74	1241	19871.8	19889.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29322.5	29340.8
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29100.7	29119.0

CHLORINE SCALE WEIGHTS	
PREV. DAY	55 #
TODAY	51 #
LBS. USED	4 #

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Larry M DATE 10-24-93 TIME 8:45

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	21.6	x 57,900 GPH	(965 GPM)	1,250,640
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	2.8	1.0	900	20141.2	20166.4
AST #3 (S)	2.8	76	929	19889.9	19915.0

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29340.8	29366.2
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29119.0	29144.3

CHLORINE SCALE WEIGHTS		
PREV. DAY	51	#
TODAY	45	#
LBS. USED	6	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
-0.04 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Wale DATE 10-25-93 TIME 11:04

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,250,640
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,808,000
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.0	1.0	1245	20166.4	20192.9
AST #3 (S)	3.0	.74	1235	19915.0	19941.5

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29366.2	29392.8
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29144.3	29171.0

CHLORINE SCALE WEIGHTS		
PREV. DAY	45	#
TODAY	38	#
LBS. USED	7	#

WET WELL LEVEL
6.4 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dele DATE 10-26-93 TIME 1835

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	- 0 -	x 56,700 GPH	(945 GPM)	—
#4 WELL	9 0 -	x 52,500 GPH	(875 GPM)	—
#5 WELL	- 0 -	x 54,900 GPH	(915 GPM)	—
#6 WELL	- 0 -	x 56,700 GPH	(945 GPM)	—
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	- 0 -	x 53,100 GPH	(885 GPM)	—
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	- 0 -	x GPH	(GPM)	—
Int. #4	- 0 -	x GPH	(GPM)	—

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	2.9	1.08	1245	20192.9	20219.4
AST #3 (S)	2.9	.76	1229	19941.5	19967.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29392.8	29419.4
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29171.0	29197.6

CHLORINE SCALE WEIGHTS		
PREV. DAY	38	#
TODAY	32	#
LBS. USED	6	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
-0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dale DATE 10-27-93 TIME 11:38

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	—
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	—
#5 WELL	-0-	x 54,900 GPH	(915 GPM)	—
#6 WELL	-0-	x 56,700 GPH	(945 GPM)	—
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	-0-	x 53,100 GPH	(885 GPM)	—
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	—
Int. #4	-0-	x GPH	(GPM)	—

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.1	1.14	1247	20219.4	20241.5
AST #3 (S)	3.1	.80	1231	19967.9	19989.9

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29419.4	29441.6
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29197.6	29219.8

CHLORINE SCALE WEIGHTS		
PREV. DAY	32	#
TODAY	30	#
LBS. USED	2	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dale DATE 10-28-93 TIME 10:23

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	3.2	1.18	1251	20241.5	20264.2
AST #3 (S)	3.1	.8	1229	19989.9	20012.5

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29441.6	29464.4
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29219.8	29242.6

CHLORINE SCALE WEIGHTS	
PREV. DAY	30 #
TODAY	28 #
LBS. USED	2 #

WET WELL LEVEL
6.4 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
-0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME Dale DATE 10-29-93 TIME 12250

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	24.0	x 57,900 GPH	(965 GPM)	1,389,600
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)	2			20140.7	20140.7
AST #2 (C)	2.4 2.4	1.04	1240	20264.2	20290.5
AST #3 (S)	2.5 2.5	.74	1229	20012.5	20038.8

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29464.4	29490.9
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29242.6	29269.0

CHLORINE SCALE WEIGHTS		
PREV. DAY	28	#
TODAY	26	#
LBS. USED	2	#

WET WELL LEVEL
6.4 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME GADY DATE 10-30-93 TIME 10:27

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE

WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	13.5	x 57,900 GPH	(965 GPM)	781,650
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA

AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)	2.05	1.08	875	20290.5	20312.3
AST #3 (S)	2.25	.76	928	20038.8	20060.6

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29490.9	29512.8
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29269.0	29290.9

CHLORINE SCALE WEIGHTS		
PREV. DAY	26	#
TODAY	26	#
LBS. USED	0	#

WET WELL LEVEL

6.2 FT.

WET WELL ROTATION

3 - 1 - 2

CHLORINE RESIDUAL

0.05 mg/L

COMMENTS _____

ELKHART PUBLIC WORKS & UTILITIES - WATER UTILITY
NORTH MAIN STREET AIR STRIPPING FACILITY

OPERATOR NAME GARY DATE 10-31-93 TIME 12:53

NORTH MAIN ST. WELL FIELD STRIPPED WELL DATA FOR THIS DATE				
WELL #	RUNTIME (HRS)	x GPH FLOW	(GPM)	TOTAL FLOW TO AST
#2 WELL	-0-	x 56,700 GPH	(945 GPM)	
#4 WELL	-0-	x 52,500 GPH	(875 GPM)	
#5 WELL	0	x 54,900 GPH	(915 GPM)	
#6 WELL	0	x 56,700 GPH	(945 GPM)	
#9 WELL	15.2	x 57,900 GPH	(965 GPM)	880,080
#10 WELL	24.0	x 58,500 GPH	(975 GPM)	1,404,000
"E" WELL	0	x 53,100 GPH	(885 GPM)	
Int. #1	24.0	x 41,400 GPH	(690 GPM)	993,600
Int. #2	24.0	x 49,200 GPH	(820 GPM)	1,180,800
Int. #3	-0-	x GPH	(GPM)	
Int. #4	-0-	x GPH	(GPM)	

AIR STRIPPER TOWER DATA					
AIR PRESSURE MEASUREMENT			FLOW (GPM) THRU TOWERS	TOTAL RUNTIME HOURS	
TOWER#	INSIDE MON.	INTAKE VENT		PREV. DAY	TODAY
AST #1 (N)				20140.7	20140.7
AST #2 (C)		1.04	1239	20312.3	20338.7
AST #3 (S)		.74	1226	20060.6	20087.0

TOTAL RUNTIME HOURS	PREV. DAY	TODAY
HIGH SERVICE PUMP #1	29512.8	29539.3
HIGH SERVICE PUMP #2	29262.2	29262.2
HIGH SERVICE PUMP #3	29290.9	29317.4

CHLORINE SCALE WEIGHTS		
PREV. DAY	26	#
TODAY	25	#
LBS. USED	1	#

WET WELL LEVEL
6.3 FT.

WET WELL ROTATION
3 - 1 - 2

CHLORINE RESIDUAL
40.05 mg/L

COMMENTS _____